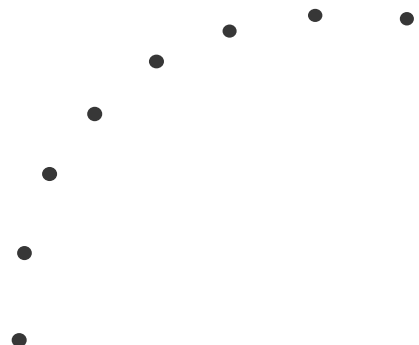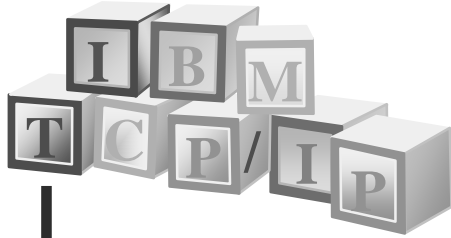# TCP/IP Version 4 for Merlin Overview

Terri Perrone

tl 444-4086
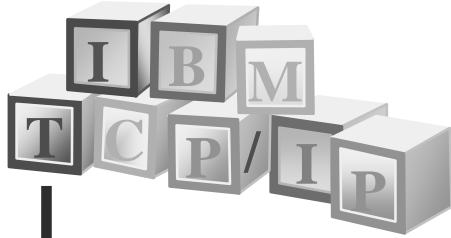
tperrone at ralvm12

What is TCP/IP?

- TCP/IP is a full suite of applications which allows a user to perform the following functions over the LAN or INTERNET - (NOTE - .EXE files are listed if they are different from the application names)
  - ƒ Logon to a remote host (TELNET, TELNETPM, PCOMM 3270, 5250)
  - ƒ Transfer files between hosts (FTP, FTPPM, TFTP)
  - ƒ Print files both locally and remote (LPR, LPRMON, LPRPORTD)
  - ƒ Send and receive electronic mail (Ultimail Lite -UMAIL.EXE)
  - ƒ Run commands on a remote host (REXEC, RSH)
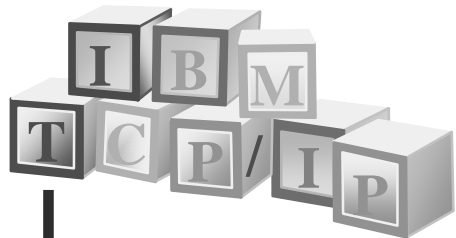 - ƒ Send/receive interactive messages - chat between 2 hosts (TALK)

ƒ Cruise the INTERNET

–IBM ADVANTIS DIALER (DIAL.EXE) or SLIPPM to dial other internet providers.

– Internet tools - Gopher, WebExplorer (EXPLORE.EXE)

ƒ Read/write to electronic bulletin boards (Newsreader/2 -NR2.EXE)

ƒ TCP/IP also includes a set of stack utilities to manage the network - IFCONFIG, ARP, PING, NETSTAT, HOST, HOSTNAME, INETCFG, INETDBG, INETVER, IPFORMAT, IPTRACE etc.
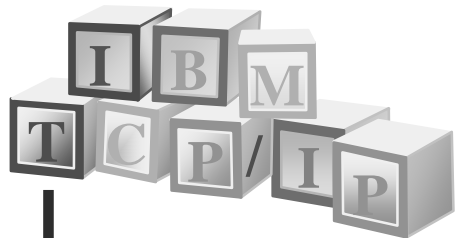
- What's New?
  - ƒ Winsock 1.1 Support - allows the easy port of Windows applications to run native   on OS/2
  - ƒ PCOMM Lite - Personal Communications emulators for 3270 and 5250 replaces TCP/IP applications- PMANT, TN3270 and TN5250
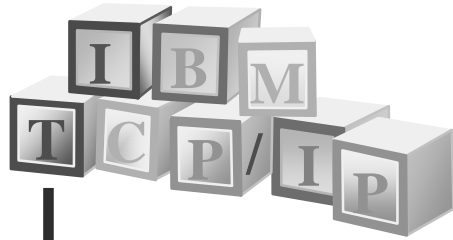 - ƒ Stack enhancements (include Variable Subnet Routing, Multicast and Socksification)
  - ƒ DHCP client- (originally shipped in Warp server) eases network admin by dynamically allocating and reusing IP addresses (DHCP server is shipped in Warp Server only and will not be shipped in Merlin) (These files are packaged with MPTN).
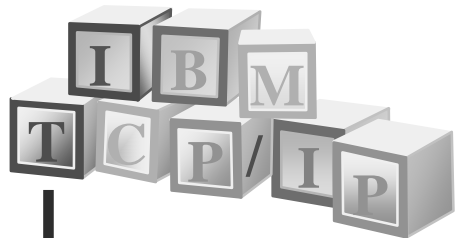
ƒ DDNS client - (originally shipped in Warp Server)simplifies network access, operation and changes with dynamic update of IP addresses and IP hostname mapping (DDNS server is shipped in Warp Server and will not be shipped in Merlin).
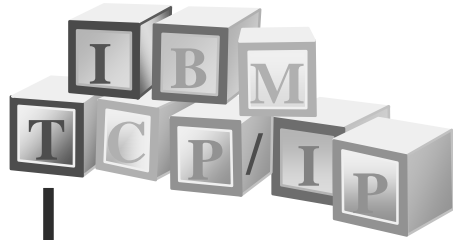
ƒ Uninstall Utility

What has been changed?

- RSU - retrieve software updates has been enhanced, now has an interface via the WEB Explorer
- Ported to 32-bit -FTPD, SENDMAIL, RSHD, REXECD, PORTMAP , NR2
- TFTPD - additional security added
- ALL applications are now NLS enabled
- Upgrade from CSET++ XPG4 version 1.0 to version 1.03 recently released by Joe Ross's NLS group) (TCP/IP needs and ships these files, the operating system ships the XPG4 libraries for Visual Age C++)
- All other applications have had bug fixes
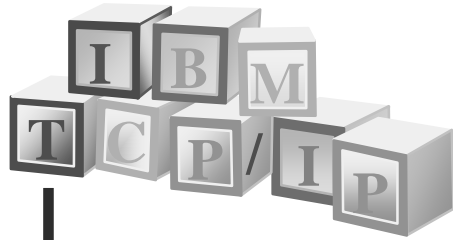
What has been deleted?

- TN3270, TN5250 and PMANT Emulators have been removed. If customers insist on them, they have been placed on the CD in a samples directory, (cid\img\tcpapps\samples) customers can get them but they are unsupported. They have been replaced by PCOMM emulators.

- TELNETO - was used for true line mode instead of the line-mode simulation provided by the Presentation Manager Telnet Client (TELNETPM). Since is doubtful that anyone still uses TELNETO. We could not justify wasting translation $ on this.

- SNMP - shipped as part of the System View Agent in the Merlin Operating System
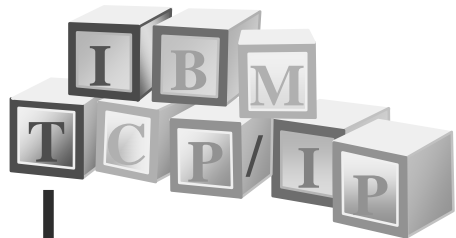
Dependencies

ƒ TCP/IP applications are dependent on the Merlin Level of the Operating system.

–The .exe and .dll files are compressed using the exepack function,   the uncompression support is only shipped in Merlin

–Merlin level of VIEW.EXE (NOTE: Pre-Merlin VIEW.EXE could only read .inf files and could not read .hlp files . Our on-line pubs are done using .hlp files In Pre-Merlin we shipped our own VIEWHELP.EXE (to read our .hlp files (on-line pubs)) we now use the operating system's VIEW.EXE.. However since some of Ultimail still needs VIEWHELP.EXE, we still ship these in Merlin.

–Our new WINSOCK 1.1 support needs the following Merlin DLL's PMWINX.DLL, PMDDEML.DLL and LIBUNI.DLL

Configuration & Setup

f Will be addressed as needed by individual areas

Invocation & Startup

f When you install TCP/IP, two folders will be placed on your desktop

- TCP/IP Internet (LAN) - contains programs to communicate with other users and to access information and other computers on your INTRANET via a LAN connection.

- TCP/IP Internet (MODEM) - contains programs to communicate with other users and to access information and other computers on the INTERNET via a service provider.